

SPLIT-TYPE AIR CONDITIONERS

INDOOR UNIT

MSY-GP10VF



OPERATING INSTRUCTIONS

For user

- To use this unit correctly and safely, be sure to read these operating instructions before use.

MSY-GP13VF MSY-GP15VF
MSY-GP18VF MSY-GP20VF



MSY-GP24VF



English

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SAFETY PRECAUTIONS

Meanings of symbols displayed on indoor unit and/or outdoor unit

	WARNING (Risk of fire)	This unit uses a flammable refrigerant. If refrigerant leaks and comes in contact with fire or heating part, it will create harmful gas and there is risk of fire.
	Read the OPERATING INSTRUCTIONS carefully before operation.	
	Service personnel are required to carefully read the OPERATING INSTRUCTIONS and INSTALLATION MANUAL before operation.	
	Further information is available in the OPERATING INSTRUCTIONS, INSTALLATION MANUAL, and the like.	

- Since rotating parts and parts which could cause an electric shock are used in this product, be sure to read these "Safety Precautions" before use.
- Since the cautionary items shown here are important for safety, be sure to observe them.
- After reading this manual, keep it together with the installation manual in a handy place for easy reference.

Marks and their meanings

-  **WARNING :** Incorrect handling could cause serious hazard, such as death, serious injury, etc. with a high probability.
-  **CAUTION :** Incorrect handling could cause serious hazard depending on the conditions.

Meanings of symbols used in this manual

-  : Be sure not to do.
-  : Be sure to follow the instruction.
-  : Never insert your finger or stick, etc.
-  : Never step onto the indoor/outdoor unit and do not put anything on them.
-  : Danger of electric shock. Be careful.
-  : Be sure to disconnect the power supply plug from the power outlet.
-  : Be sure to shut off the power.
-  : Risk of fire

 WARNING	
	Do not connect the power cord to an intermediate point, use an extension cord, or connect multiple devices to a single AC outlet. • This may cause overheating, fire, or electric shock.
	Make sure the power plug is free of dirt and insert it securely into the outlet. • A dirty plug may cause fire or electric shock.
	Do not bundle, pull, damage, or modify the power cord, and do not apply heat or place heavy objects on it. • This may cause fire or electric shock.
	Do not turn the breaker OFF/ON or disconnect/connect the power plug during operation. • This may create sparks, which can cause fire. • After the indoor unit is switched OFF with the remote controller, make sure to turn the breaker OFF or disconnect the power plug.
	Do not expose your body directly to cool air for a prolonged length of time. • This could be detrimental to your health.

	The unit should not be installed, relocated, disassembled, altered, or repaired by the user. • An improperly handled air conditioner may cause fire, electric shock, injury, or water leakage, etc. Consult your dealer. • If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent in order to avoid a hazard.
	When installing, relocating, or servicing the unit, make sure that no substance other than the specified refrigerant (R32) enters the refrigerant circuit. • Any presence of foreign substance such as air can cause abnormal pressure rise and may result in explosion or injury. • The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction, or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.
	This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
	Children should be supervised to ensure that they do not play with the appliance.

SAFETY PRECAUTIONS

⚠ WARNING

	Do not insert your finger, a stick, or other objects into the air inlet or outlet. This may cause injury, since the fan inside rotates at high speeds during operation.
	In case of an abnormal condition (such as a burning smell), stop the air conditioner and disconnect the power plug or turn the breaker OFF. A continued operation in the abnormal state may cause a malfunction, fire, or electric shock. In this case, consult your dealer.
	When the air conditioner does not cool or heat, there is a possibility of refrigerant leakage. If any refrigerant leakage is found, stop operations and ventilate the room well and consult your dealer immediately. If a repair involves recharging the unit with refrigerant, ask the service technician for details. - The refrigerant used in the air conditioner is not harmful. Normally, it does not leak. However, if refrigerant leaks and comes in contact with fire or heating part of such a fan heater, kerosene heater, or cooking stove, it will create harmful gas and there is risk of fire. The user should never attempt to wash the inside of the indoor unit. Should the inside of the unit require cleaning, contact your dealer. - Unsuitable detergent may cause damage to plastic material inside the unit, which may result in water leakage. Should detergent come in contact with electrical parts or the motor, it will result in a malfunction, smoke, or fire. - The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater). - Be aware that refrigerants may not contain an odour. - Do not use means to accelerate the defrosting process or to clean the appliance, other than those recommended by the manufacturer. - Do not pierce or burn. The indoor unit must be installed in rooms which exceed the floor space specified. Please consult your dealer.

⚠ CAUTION

	Do not touch the air inlet or the aluminum fins of the indoor/outdoor unit. This may cause injury.
	Do not use insecticides or flammable sprays on the unit. This may cause a fire or deformation of the unit.
	Do not expose pets or houseplants to direct airflow. This may cause injury to the pets or plants.
	Do not place other electric appliances or furniture under the indoor/outdoor unit. Water may drip down from the unit, which may cause damage or malfunction.
	Do not leave the unit on a damaged installation stand. The unit may fall and cause injury.
	Do not step on an unstable bench to operate or clean the unit. This may cause injury if you fall down.
	Do not pull the power cord. This may cause a portion of the core wire to break, which may cause overheating or fire.
	Do not charge or disassemble the batteries, and do not throw them into a fire. This may cause the batteries to leak, or cause a fire or explosion.
	Do not operate the unit for more than 4 hours at high humidity (80% RH or more) and/or with windows or outside door left open. - This may cause the water condensation in the air conditioner, which may drip down, wetting or damaging the furniture. - The water condensation in the air conditioner may contribute to growth of fungi, such as mold.
	Do not use the unit for special purposes, such as storing food, raising animals, growing plants, or preserving precision devices or art objects. This may cause deterioration of quality, or harm to animals and plants.
	Do not expose combustion appliances to direct airflow. This may cause incomplete combustion.
	Never put batteries in your mouth for any reason to avoid accidental ingestion. Battery ingestion may cause choking and/or poisoning.



Before cleaning the unit, switch it OFF and disconnect the power plug or turn the breaker OFF.

- This may cause injury, since the fan inside rotates at high speeds during operation.

When the unit will be unused for a long time, disconnect the power plug or turn the breaker OFF.

- The unit may accumulate dirt, which may cause overheating or fire.

Replace all batteries of the remote controller with new ones of the same type.

- Using an old battery together with a new one may cause overheating, leakage, or explosion.

If the battery fluid comes in contact with your skin or clothes, wash them thoroughly with clean water.

- If the battery fluid comes in contact with your eyes, wash them thoroughly with clean water and immediately seek medical attention.

Ensure that the area is well-ventilated when the unit is operated together with a combustion appliance.

- Inadequate ventilation may cause oxygen starvation.

Turn the breaker OFF when you hear thunder and there is a possibility of a lightning strike.

- The unit may be damaged if lightning strikes.

After the air conditioner is used for several seasons, perform inspection and maintenance in addition to normal cleaning.

- Dirt or dust in the unit may create an unpleasant odor, contribute to growth of fungi, such as mold, or clog the drain passage, and cause water to leak from the indoor unit. Consult your dealer for inspection and maintenance, which require specialized knowledge and skills.



Do not operate switches with wet hands.

- This may cause electric shock.

Do not clean the air conditioner with water or place an object that contains water, such as a flower vase, on it.

- This may cause fire or electric shock.



Do not step on or place any object on the outdoor unit.

- This may cause injury if you or the object falls down.

⚠ IMPORTANT

Dirty filters cause condensation in the air conditioner which will contribute to the growth of fungi such as mold. It is therefore recommended to clean air filters every 2 weeks.

For installation

⚠ WARNING



Consult your dealer for installing the air conditioner.

- It should not be installed by the user since installation requires specialized knowledge and skills. An improperly installed air conditioner may cause water leakage, fire, or electric shock.

Provide a dedicated power supply for the air conditioner.

- A non-dedicated power supply may cause overheating or fire.

Do not install the unit where flammable gas could leak.

- If gas leaks and accumulates around the outdoor unit, it may cause an explosion.



Earth the unit correctly.

- Do not connect the earth wire to a gas pipe, water pipe, lightning rod, or a telephone earth wire. Improper earthing may cause electric shock.

⚠ CAUTION



Install an earth leakage breaker depending on the installation location of the air conditioner (such as highly humid areas).

- If an earth leakage breaker is not installed, it may cause electric shock.

Ensure that the drain water is properly drained.

- If the drain passage is improper, water may drip down from the indoor/outdoor unit, wetting and damaging the furniture.

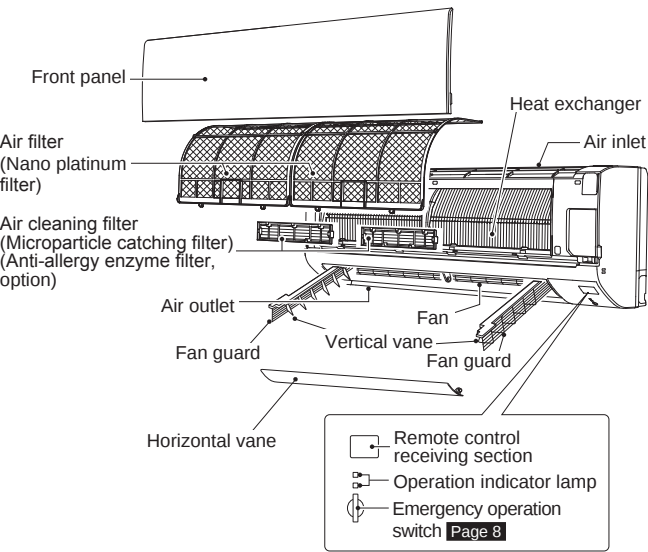
In case of an abnormal condition

Immediately stop operating the air conditioner and consult your dealer.

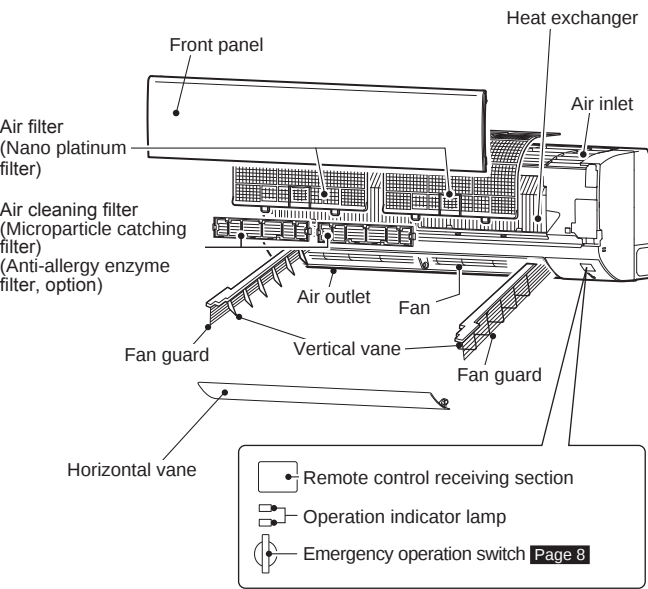
NAME OF EACH PART

Indoor unit

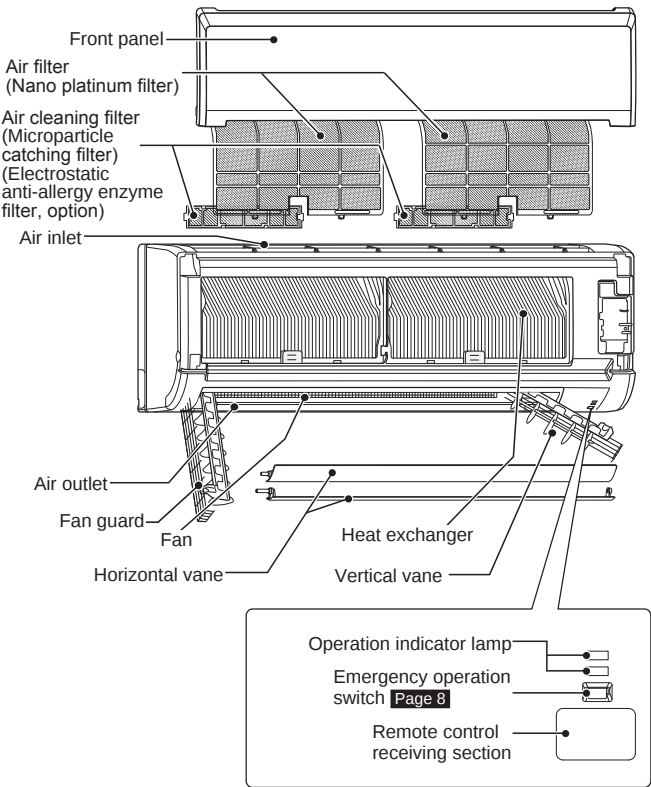
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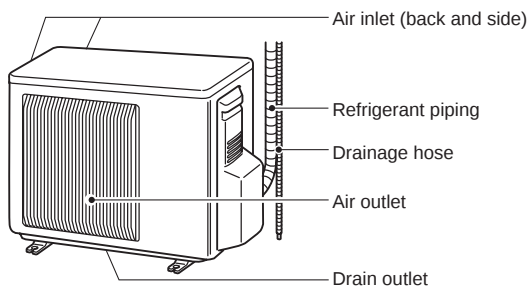
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Outdoor unit

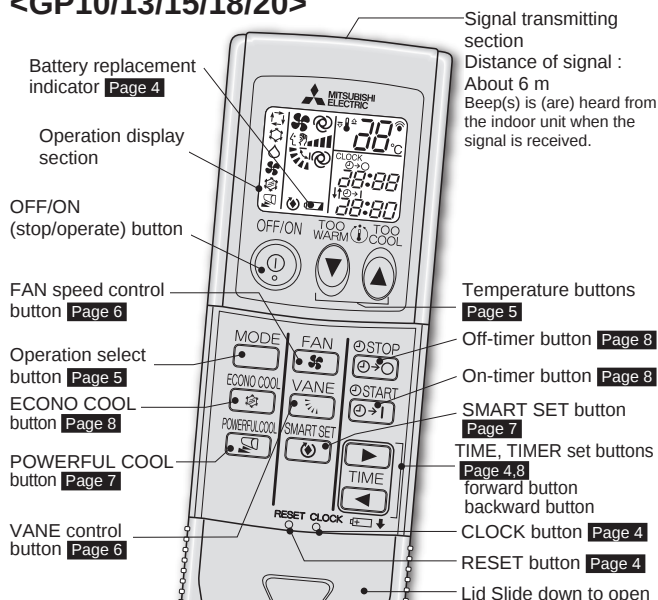


Outdoor units may be different in appearance.

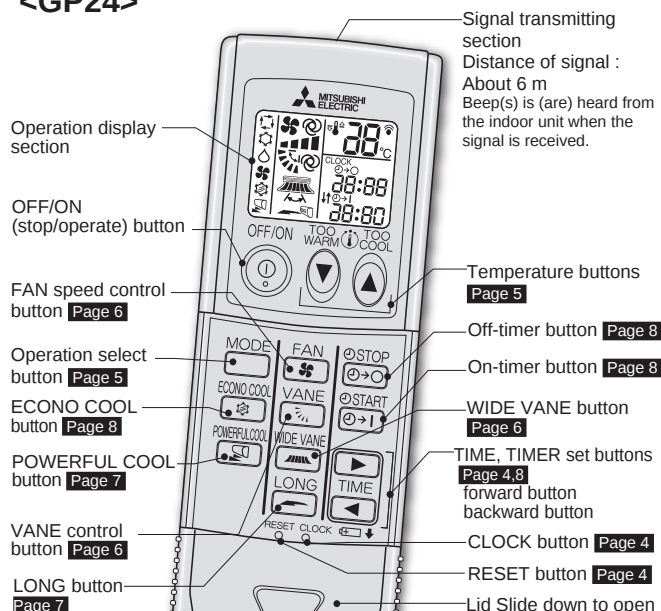
NAME OF EACH PART

Remote controller

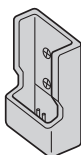
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Remote controller holder



- Install the remote controller holder in a place where the signal can be received by the indoor unit.

Only use the remote controller provided with the unit.

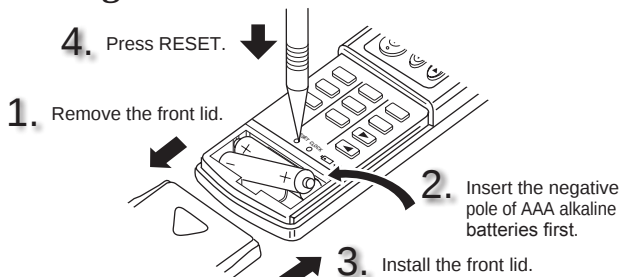
Do not use other remote controllers.

If two or more indoor units are installed in proximity to one another, an indoor unit that is not intended to be operated may respond to the remote controller.

PREPARATION BEFORE OPERATION

Before operation: Insert the power supply plug into the power outlet and/or turn the breaker on.

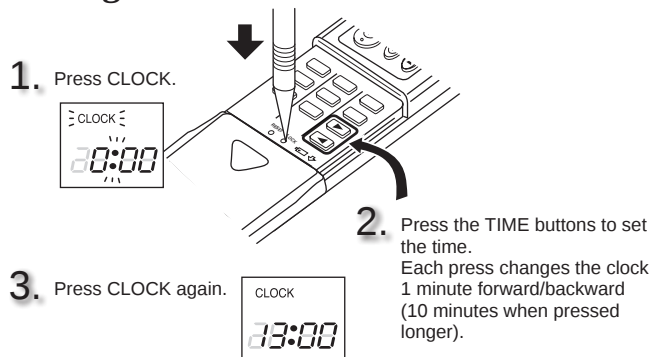
Installing the remote controller batteries



Note:

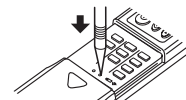
- Make sure the polarity of the batteries is correct.
- Do not use manganese batteries and leaking batteries. The remote controller could malfunction.
- Do not use rechargeable batteries.
- The battery replacement indicator lights up when the battery is running low. In about 7 days after the indicator starts lights up, the remote controller stops working.<GP10/13/15/18/20>
- Replace all batteries with new ones of the same type.
- Batteries can be used for approximately 1 year. However, batteries with expired shelf lives last shorter.
- Press RESET gently using a thin instrument.
- If the RESET button is not pressed, the remote controller may not operate correctly.

Setting current time



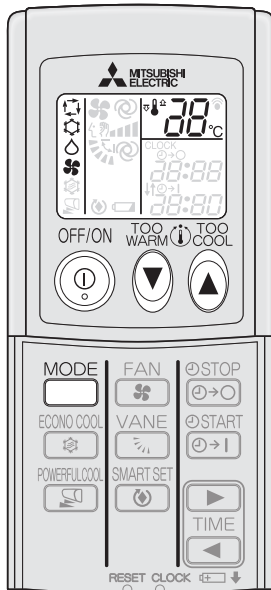
Note:

- Press CLOCK gently using a thin instrument.

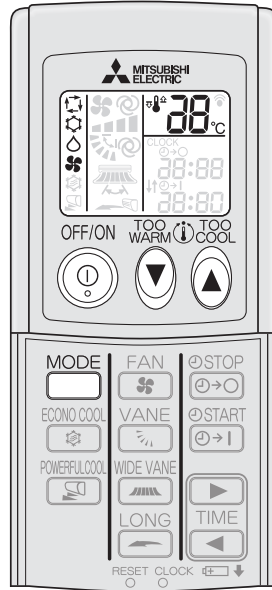


SELECTING OPERATION MODES

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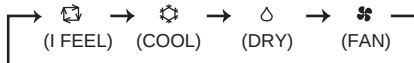


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1 Press  to start the operation.

2 Press  to select operation mode. Each press changes mode in the following order:



3 Press  or  to set the temperature. Each press raises or lowers the temperature by 1°C.

Press  to stop the operation.
• The same setting is selected the next time by simply pressing .

Note:

Operation indicator lamp

The operation indicator lamp shows the operation state of the unit.

Indication	Operation state	Room temperature
	The unit is operating to reach the set temperature	About 2°C or more away from set temperature
	The room temperature is approaching the set temperature	About 1 to 2°C from set temperature

 Lit  Not lit

I FEEL mode

The unit selects the operation mode according to the room temperature when I FEEL is selected. When the room temperature is higher than 25°C, COOL is selected (set temperature: 24°C). When the room temperature is lower than 25°C, DRY is selected. However, when operation is stopped and then started within 2 hours, the mode which has been selected previously is operated.

Note:

During COOL operation, the set temperature may not be changed when the room temperature is more than 2°C higher than the set temperature. In this case, please wait until the room temperature drops to within 2°C of the set temperature.

COOL mode

Enjoy cool air at your desired temperature.

DRY mode

Dehumidify your room. The room may be cooled slightly. Temperature cannot be set during DRY mode.

FAN mode

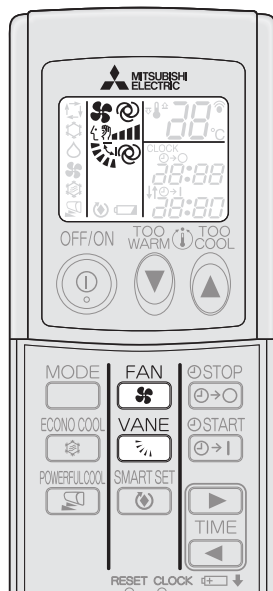
Circulate the air in your room.

Note:

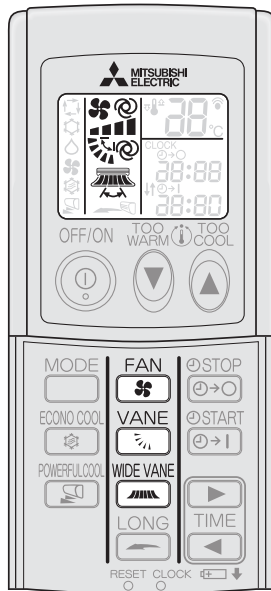
After COOL/DRY mode operation, it is recommended to operate in the FAN mode to dry inside the indoor unit.

FAN SPEED AND AIRFLOW DIRECTION ADJUSTMENT

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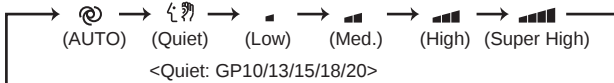


<GP24>



Fan speed

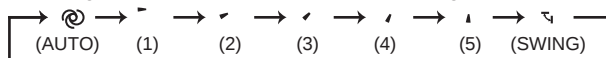
Press **FAN** to select fan speed. Each press changes fan speed in the following order:



- Two short beeps are heard from the indoor unit when set to AUTO.
- Use higher fan speed to cool the room more powerfully. It is recommended to lower the fan speed once the room is cool.
- Use lower fan speed for quiet operation.
- Use lower fan speed to further lower the outlet temperature and humidity.

Up-down Airflow direction

Press **VANE** to select airflow direction. Each press changes airflow direction in the following order:



(AUTO)..... The vane is set to the most efficient airflow direction.
:horizontal position.

(Manual)..... For efficient air conditioning, select the upper position for COOL/DRY, and the lower position for FAN. If the position (3), (4) or (5) is selected during COOL/DRY, the vane automatically moves to the upward position after 0.5 to 1 hour to prevent any condensation from dripping.

(Swing)..... The vane moves up and down intermittently.

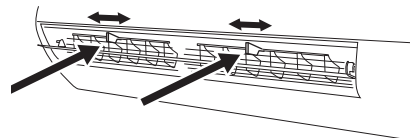
- Two short beeps are heard from the indoor unit when set to AUTO.

Left-right Airflow direction

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■ To change the horizontal airflow direction.

Move the vertical vanes from side to side by pinching the tabs indicated by arrows before starting operation.



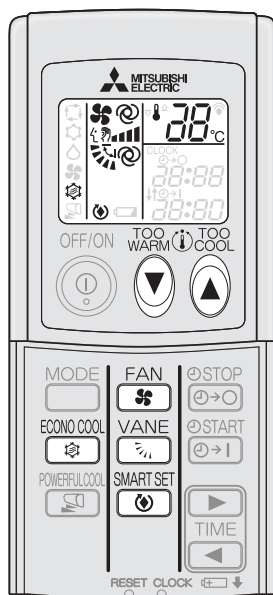
<GP24>

Press **WIDE VANE** to select horizontal airflow direction. Each press changes airflow direction in the following order:



SMART SET OPERATION

<GP10/13/15/18/20>



1 Press  during COOL or ECONO COOL mode to select SMART SET mode.

2 Set the temperature, fan speed, and air flow direction.

- The same setting is selected from the next time by simply pressing .
- One group of setting can be saved.
- Select the appropriate temperature, fan speed, and airflow direction according to your room.

Press  again to cancel SMART SET operation.

- SMART SET operation also is canceled when the MODE button is pressed.

SMART SET operation

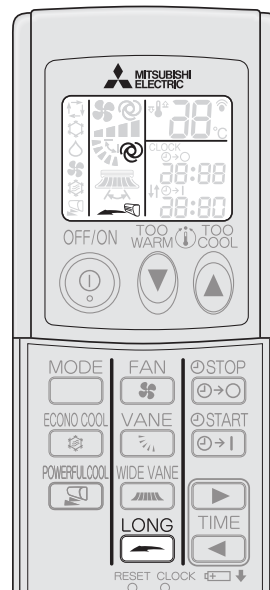
A simplified set back function enables to recall the preferred (preset) setting with a single push of the  button. Press the button again and you can go back to the previous setting in an instance.

Example of use:

1. Low energy mode
Set the temperature 2°C to 3°C warmer in COOL. This setting is suitable for unoccupied room, and while you are sleeping.
2. Saving frequently used settings
Save your preferred setting for COOL/ECONO COOL. This enables you to select your preferred setting with a single push of the button.

LONG OPERATION

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Press  to start LONG operation.

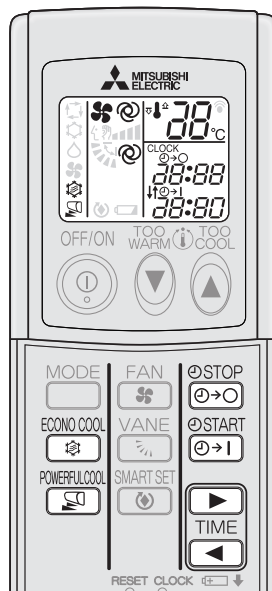
- Fan speed increases and the horizontal vane moves to the position for LONG mode.
- Air reaches to longer distance.

Press  again to cancel LONG operation.

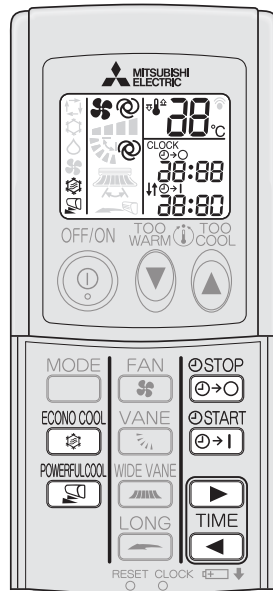
- LONG operation is cancelled when the OFF/ON, VANE, or ECONO COOL button is pressed.

ECONO COOL OPERATION

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Swing air flow (change of air flow) makes you feel cooler than constant air flow. So, even though the set temperature is automatically set 2°C higher, it is possible to perform cooling operation with keeping comfort. As a result, energy can be saved.

ECONO COOL

Press  during COOL mode **page 5** to start ECONO COOL operation.

The unit performs swing operation vertically in various cycle according to the temperature of the unit. Set temperature is set 2°C higher automatically.

ECONO COOL

Press  again to cancel ECONO COOL operation.

- ECONO COOL operation is also canceled when the VANE button is pressed.

POWERFUL COOL OPERATION

POWERFUL COOL

Press  during COOL mode **Page 5** to start POWERFUL COOL operation.

Fan speed : Exclusive speed for POWERFUL mode
Horizontal vane : Set position, or downward airflow position during AUTO setting

- Temperature cannot be set during POWERFUL COOL operation.

POWERFUL COOL

Press  again to cancel POWERFUL COOL operation.

- POWERFUL COOL operation also is cancelled automatically in 15 minutes, or when the OFF/ON, FAN, or ECONO COOL button is pressed.

TIMER OPERATION (ON/OFF TIMER)

1

Press  or  during operation to set the timer.

 (ON timer) : The unit turns ON at the set time.

 (OFF timer) : The unit turns OFF at the set time.

- *  or  blinks.

- * Make sure that the current time is set correctly. **Page 4**

2

Press  (forward) and  (backward) to set the time of timer.

Each press changes the set time 10 minutes forward/backward.

- Set the timer while  or  is blinking.

Press  or  again to cancel timer.

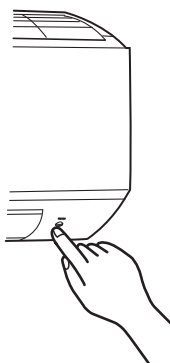
Note:

- ON and OFF timers can be set together. $\downarrow\uparrow$ mark indicates the order of timer operations.
- If power failure occurs while ON/OFF timer is set, see **Page 8** "Auto restart function".

EMERGENCY OPERATION

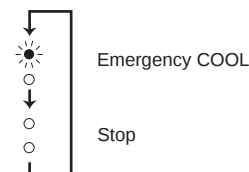
When the remote controller cannot be used...

Emergency operation can be activated by pressing the emergency operation switch (E.O.SW) on the indoor unit.



Each time the E.O.SW is pressed, the operation changes in the following order:

Operation indicator lamp



Set temperature : 24°C
Fan speed : Medium
Horizontal vane : Auto

Note:

The first 30 minutes of operation is test run. Temperature control does not work, and fan speed is set to High.

AUTO RESTART FUNCTION

If a power failure occurs or the main power is turned off during operation, "Auto restart function" automatically starts operation in the same mode as the one set with the remote controller just before the shutoff of the main power. When timer is set, timer setting is cancelled and the unit starts operation when power is resumed.

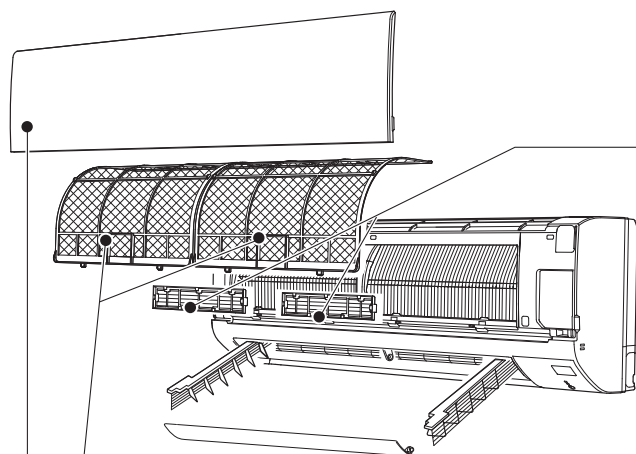
If you do not want to use this function, please consult the service representative because the setting of the unit needs to be changed.

CLEANING

Instructions:

- Switch off the power supply or turn off the breaker before cleaning.
- Be careful not to touch the metal parts with your hands.
- Do not use benzine, thinner, polishing powder, or insecticide.
- Use only diluted neutral detergents.
- Do not use a scrubbing brush, a hard sponge, or the like.
- Do not soak or rinse the horizontal vane.
- Do not use water hotter than 50°C.
- Do not expose parts to direct sunlight, heat, or fire to dry.
- Do not apply excessive force on the fan as it may cause cracks or breakage.

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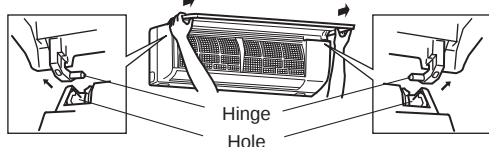
Air filter (Nano platinum filter)

- **Clean every 2 weeks**
- Remove dirt by a vacuum cleaner, or rinse with water.
- After washing with water, dry it well in shade.

What is "Nano platinum filter" ?

Nano platinum is a ceramic particle that includes a platinum nanoparticle. The particles are incorporated into the filter material, which results in providing semi-permanent antibacterial and deodorizing characteristics for the filter. Nano platinum surpasses the catechin (a bioflavonoid that is found in green tea) in performance. Nano platinum filter uses this compound not only to improve air quality but also to eliminate bacteria and viruses. This air filter has a semi-permanent lasting effect even after washing it with water.

Front panel



1. Lift the front panel until a "click" is heard.
2. Hold the hinges and pull to remove as shown in the illustration above.
 - Wipe with a soft dry cloth or rinse it with water.
 - Do not soak it in water for more than two hours.
 - Dry it well in shade.
3. Install the front panel by following the removal procedure in reverse. Close the front panel securely and press the positions indicated by the arrows.



Air cleaning filter (Microparticle catching filter)

Removes the microparticles from the air by means of static electricity.

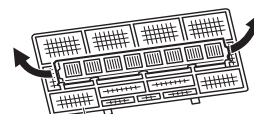
Back side of air filter

Clean every 3 months:

- Remove dirt by a vacuum cleaner.
- Put it back to its original position, and install all tabs of the air cleaning filter.
- Do not wash it with water. Replace it with a new air cleaning filter when tobacco tar or oil stains adhere to it.

Every 3 year:

- Replace it with a new air cleaning filter for best performance.
- Parts Number **MAC-EMF515FT-E**



Pull to remove from the air filter

Air cleaning filter (Anti-allergy enzyme filter, option)

Back side of air filter

Clean every 3 months:

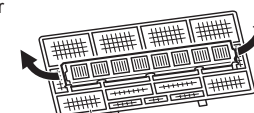
- Remove dirt by a vacuum cleaner.
- Put it back to its original position, and install all tabs of the air cleaning filter.

When dirt cannot be removed by vacuum cleaning:

- Soak the filter and its frame in lukewarm water before rinsing it. (Diluted mild detergents can be used when dirt cannot be removed.)
- After washing with water, dry it well in shade. Install all tabs of the air cleaning filter.

Every year:

- Replace it with a new air cleaning filter for best performance.
- Parts Number **MAC-408FT-E**



Pull to remove from the air filter



Important

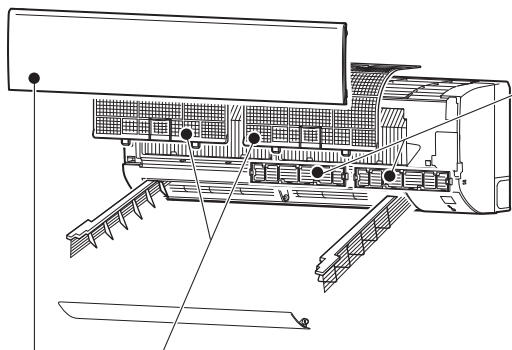
- **Clean the filters regularly for best performance and to reduce power consumption.**
- **Dirty filters cause condensation in the air conditioner which will contribute to the growth of fungi such as mold. It is therefore recommended to clean air filters every 2 weeks.**

CLEANING

Instructions:

- Switch off the power supply or turn off the breaker before cleaning.
- Be careful not to touch the metal parts with your hands.
- Do not use benzine, thinner, polishing powder, or insecticide.
- Use only diluted neutral detergents.
- Do not use a scrubbing brush, a hard sponge, or the like.
- Do not soak or rinse the horizontal vane.
- Do not use water hotter than 50°C.
- Do not expose parts to direct sunlight, heat, or fire to dry.
- Do not apply excessive force on the fan as it may cause cracks or breakage.

<GP13/15/18/20>



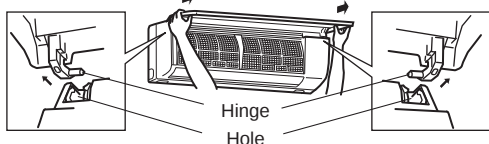
Air filter (Nano platinum filter)

- **Clean every 2 weeks**
- Remove dirt by a vacuum cleaner, or rinse with water.
- After washing with water, dry it well in shade.

What is "Nano platinum filter"?

Nano platinum is a ceramic particle that includes a platinum nanoparticle. The particles are incorporated into the filter material, which results in providing semi-permanent antibacterial and deodorizing characteristics for the filter. Nano platinum surpasses the catechin (a bioflavonoid that is found in green tea) in performance. Nano platinum filter uses this compound not only to improve air quality but also to eliminate bacteria and viruses. This air filter has a semi-permanent lasting effect even after washing it with water.

Front panel



1. Lift the front panel until a "click" is heard.
2. Hold the hinges and pull to remove as shown in the illustration above.
 - Wipe with a soft dry cloth or rinse it with water.
 - Do not soak it in water for more than two hours.
 - Dry it well in shade.
3. Install the front panel by following the removal procedure in reverse. Close the front panel securely and press the positions indicated by the arrows.



Air cleaning filter (Microparticle catching filter)

Removes the microparticles from the air by means of static electricity.

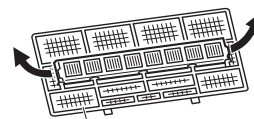
Back side of air filter

Clean every 3 months:

- Remove dirt by a vacuum cleaner.
- Put it back to its original position, and install all tabs of the air cleaning filter.
- Do not wash it with water. Replace it with a new air cleaning filter when tobacco tar or oil stains adhere to it.

Every 3 year:

- Replace it with a new air cleaning filter for best performance.
- Parts Number **MAC-EMF515FT-E**



Pull to remove from the air filter

Air cleaning filter (Anti-allergy enzyme filter, option)

Back side of air filter

Clean every 3 months:

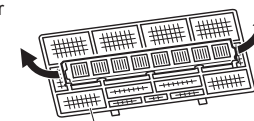
- Remove dirt by a vacuum cleaner.
- Put it back to its original position, and install all tabs of the air cleaning filter.

When dirt cannot be removed by vacuum cleaning:

- Soak the filter and its frame in lukewarm water before rinsing it. (Diluted mild detergents can be used when dirt cannot be removed.)
- After washing with water, dry it well in shade. Install all tabs of the air cleaning filter.

Every year:

- Replace it with a new air cleaning filter for best performance.
- Parts Number **MAC-408FT-E**



Pull to remove from the air filter

! Important

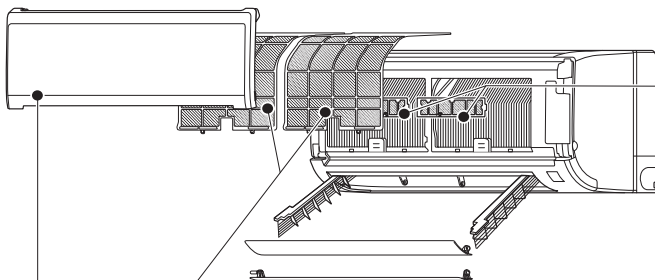
- **Clean the filters regularly for best performance and to reduce power consumption.**
- **Dirty filters cause condensation in the air conditioner which will contribute to the growth of fungi such as mold. It is therefore recommended to clean air filters every 2 weeks.**

CLEANING

Instructions:

- Switch off the power supply or turn off the breaker before cleaning.
- Be careful not to touch the metal parts with your hands.
- Do not use benzine, thinner, polishing powder, or insecticide.
- Use only diluted neutral detergents.
- Do not use a scrubbing brush, a hard sponge, or the like.
- Do not soak or rinse the horizontal vane.
- Do not use water hotter than 50°C.
- Do not expose parts to direct sunlight, heat, or fire to dry.
- Do not apply excessive force on the fan as it may cause cracks or breakage.

<GP24>



Air filter (Nano platinum filter)

• Clean every 2 weeks

- Remove dirt by a vacuum cleaner, or rinse with water.
- After washing with water, dry it well in shade.

What is "Nano platinum filter" ?

Nano platinum is a ceramic particle that includes a platinum nanoparticle. The particles are incorporated into the filter material, which results in providing semi-permanent antibacterial and deodorizing characteristics for the filter. Nano platinum surpasses the catechin (a bioflavonoid that is found in green tea) in performance. Nano platinum filter uses this compound not only to improve air quality but also to eliminate bacteria and viruses. This air filter has a semi-permanent lasting effect even after washing it with water.

Air cleaning filter (Microparticle catching filter)

Removes the microparticles from the air by means of static electricity.

Back side of air filter

Clean every 3 months:

- Remove dirt by a vacuum cleaner.
- Put it back to its original position, and install all tabs of the air cleaning filter.
- Do not wash it with water. Replace it with a new air cleaning filter when tobacco tar or oil stains adhere to it.

Every 3 year:

- Replace it with a new air cleaning filter for best performance.
- Parts Number **MAC-EMF615FT-E**

Air cleaning filter (Electrostatic anti-allergy enzyme filter, option)

Back side of air filter

Clean every 3 months:

- Remove dirt by a vacuum cleaner.
- Put it back to its original position, and install all tabs of the air cleaning filter.

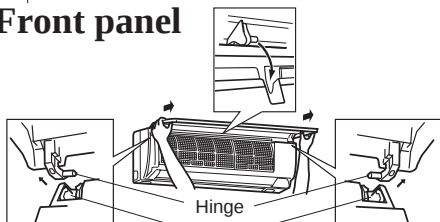
When dirt cannot be removed by vacuum cleaning:

- Soak the filter and its frame in lukewarm water before rinsing it. (Diluted mild detergents can be used when dirt cannot be removed.)
- After washing with water, dry it well in shade. Install all tabs of the air cleaning filter.

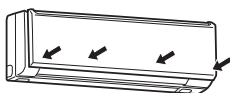
Every year:

- Replace it with a new air cleaning filter for best performance.
- Parts Number **MAC-2310FT-E**

Front panel



1. Lift the front panel until a "click" is heard.
2. Hold the hinges and pull to remove as shown in the left illustration.
 - Wipe with a soft dry cloth or rinse it with water.
 - Do not soak it in water for more than two hours.
 - Dry it well in shade.
3. Install the front panel by following the removal procedure in reverse. Close the front panel securely and press the positions indicated by the arrows.



Important

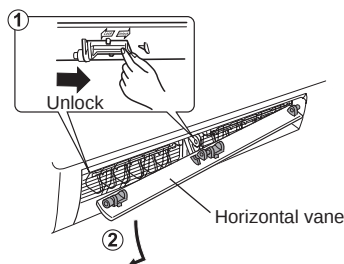
- **Clean the filters regularly for best performance and to reduce power consumption.**
- **Dirty filters cause condensation in the air conditioner which will contribute to the growth of fungi such as mold. It is therefore recommended to clean air filters every 2 weeks.**

CLEANING

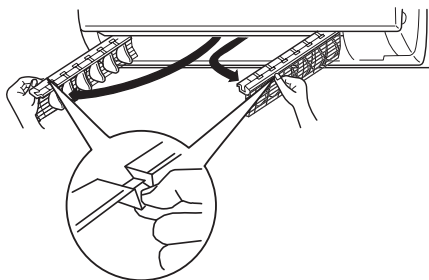
<GP10/13/15/18/20>

Air outlet and Fan (before cleaning, make sure that the fan is stopped)

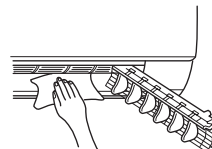
- 1** Turn the horizontal vane downward. Then, remove the horizontal vane as shown in ① and ②.



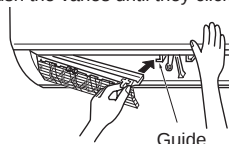
- 2** Swing out the two vertical vanes one by one.



- 3** Clean the air outlet and fan.
• Wipe with a soft dry cloth.



- 4** Put the vertical vanes back to their original positions correctly one by one, into their respective guide.
• Push the vanes until they click into place.



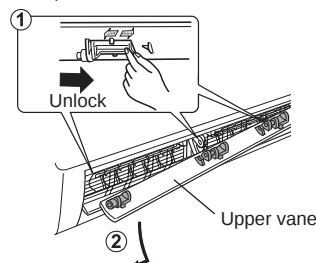
- 5** Install the horizontal vane by following the removal procedure in reverse.
• If the horizontal vane is not installed correctly, all LED lamps blink when power is turned on.

Note:
Do not apply excessive force to the fan or fan guard.

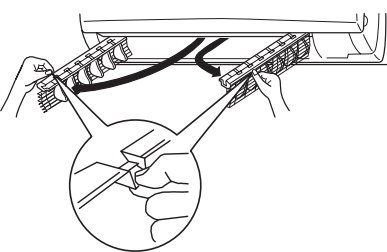
<GP24>

Air outlet and Fan (before cleaning, make sure that the fan is stopped)

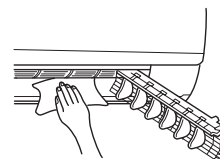
- 1** Turn the horizontal vanes downward. Then, remove the upper vane as shown in ① and ②.
• Repeat ① and ② for the lower vane.



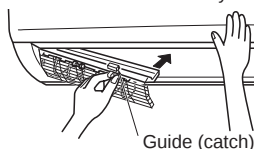
- 2** Swing out the two vertical vanes one by one.



- 3** Clean the air outlet and fan.
• Wipe with a soft dry cloth.



- 4** Put the vertical vanes back to their original positions correctly one by one, into their respective guide.
• Push the vanes until they click into place.



- 5** Install the horizontal vanes by following the removal procedure in reverse.
• If the horizontal vanes are not installed correctly, all LED lamps blink when power is turned on.

Note:
Do not apply excessive force to the fan or fan guard.

WHEN YOU THINK THAT TROUBLE HAS OCCURRED

Even if these items are checked, when the unit does not recover from the trouble, stop using the air conditioner and consult your dealer.

Symptom	Explanation & Check points
Indoor Unit	
The unit cannot be operated.	- Is the breaker turned on? - Is the power supply plug connected? - Is the ON timer set? Page 8
All LED lamps on the indoor unit are blinking.	Are the horizontal vanes installed correctly? Page 12
The horizontal vane does not move.	- Are the horizontal vane and the vertical vane installed correctly? Page 12 - Is the fan guard deformed?
The unit cannot be operated for about 3 minutes when restarted.	This protects the unit according to instructions from the microprocessor. Please wait.
Mist is discharged from the air outlet of the indoor unit.	The cool air from the unit rapidly cools moisture in the air inside the room, and it turns into mist.
The swing operation of the HORIZONTAL VANE is suspended for a while, then restarted.	This is for the swing operation of the HORIZONTAL VANE to be performed normally.
The air flow direction changes during operation. The direction of the horizontal vane cannot be adjusted with the remote controller.	When the unit is operated in COOL or DRY mode, if the operation continues with air blowing down for 0.5 to 1 hour, the direction of the air flow is automatically set to upward position to prevent water from condensing and dripping.
The unit starts operation by itself when the main power is turned on, though it isn't operated with the remote controller.	These models are equipped with an auto restart function. When the main power is turned off without stopping the unit with the remote controller and is turned on again, the unit starts operation automatically in the same mode as the one set with the remote controller just before the shutoff of the main power. Refer to "Auto restart function". Page 8
The indoor unit discolors over time.	Although plastic turns yellow due to the influence of some factors such as ultraviolet light and temperature, this has no effect on the product functions.
Outdoor Unit	
The fan of the outdoor unit does not rotate even though the compressor is running. Even if the fan starts to rotate, it stops soon.	When the outside temperature is low during cooling operation, the fan operates intermittently to maintain sufficient cooling capacity.
Water leaks from the outdoor unit.	During COOL and DRY operations, pipe or pipe connecting sections are cooled and this causes water to condense.
Remote controller	
The display on the remote controller does not appear or it is dim. The indoor unit does not respond to the remote control signal.	- Are the batteries exhausted? Page 4 - Is the polarity (+, -) of the batteries correct? Page 4 - Are any buttons on the remote controller of other electric appliances being pressed?

Symptom	Explanation & Check points
Does not cool	
The room cannot be cooled sufficiently.	- Is the temperature setting appropriate? Page 5 - Is the fan setting appropriate? Please change fan speed to High or Super High. Page 6 - Are the filters clean? Page 9 - Is the fan or heat exchanger of the indoor unit clean? Page 9 - Are there any obstacles blocking the air inlet or outlet of the indoor or outdoor unit? - Is a window or door open? - When a ventilation fan or a gas cooker is used in a room, the cooling load increases, resulting in an insufficient cooling effect. - When the outside temperature is high, the cooling effect may not be sufficient. - It may take a certain time to reach the setting temperature or may not reach that depending on the size of the room, the ambient temperature, and the like.
Airflow	
The air from the indoor unit smells strange.	- Are the filters clean? Page 9 - Is the fan or heat exchanger of the indoor unit clean? Page 9 - The unit may suck in an odor adhering to the wall, carpet, furniture, cloth, etc. and blow it out with the air.
Sound	
Cracking sound is heard.	This sound is generated by the expansion/contraction of the front panel, etc. due to change in temperature.
"Bubbling" sound is heard.	This sound is heard when the outside air is absorbed from the drain hose by turning on the range hood or the ventilation fan, making water flowing in the drain hose to spout out. This sound is also heard when the outside air blows into the drain hose in case the outside wind is strong.
Mechanical sound is heard from the indoor unit.	This is the switching sound in turning on/off the fan or the compressor.
The sound of water flowing is heard.	This is the sound of refrigerant or condensed water flowing in the unit.
Hissing sound is sometimes heard.	This is the sound when the flow of refrigerant inside the unit is switched.

In the following cases, stop using the air conditioner and consult your dealer.

- When water leaks or drips from the indoor unit.
- When the left/upper operation indicator lamp blinks. Except for when the lamp of a multi unit blinks while the unit is on standby.
- When the breaker trips frequently.
- The remote control signal is not received in a room where an electronic ON/OFF type fluorescent lamp (inverter-type fluorescent lamp, etc.) is used.
- Operation of the air conditioner interferes with radio or TV reception. An amplifier may be required for the affected device.
- When an abnormal sound is heard.
- When any refrigerant leakage is found.

WHEN THE AIR CONDITIONER IS NOT GOING TO BE USED FOR A LONG TIME

- 1 Operate by COOL mode with the highest temperature set or FAN mode for 3 to 4 hours. **Page 5**
 - This dries the inside of the unit.
 - Moisture in the air conditioner contributes to growth of fungi, such as mold.
- 2 Press  to stop the operation.
- 3 Turn off the breaker and/or disconnect the power supply plug.
- 4 Remove all batteries from the remote controller.

When using the air conditioner again:

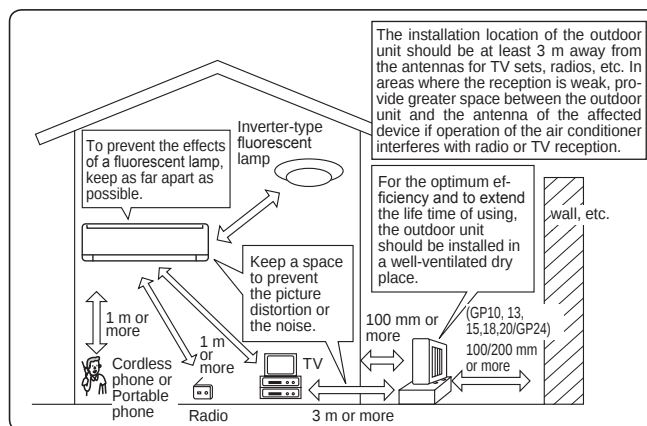
- 1 Clean the air filter. **Page 9**
- 2 Check that the air inlet and outlet of the indoor and outdoor units are not blocked.
- 3 Check that the earth is connected correctly.
- 4 Refer to the "PREPARATION BEFORE OPERATION", and follow the instructions. **Page 4**

INSTALLATION PLACE AND ELECTRICAL WORK

Installation place

Avoid installing the air conditioner in the following places.

- Where there is much machine oil.
- Salty places such as the seaside.
- Where sulfide gas is generated such as hot spring, sewage, waste water.
- Where oil is splashed or where the area is filled with oily smoke (such as cooking areas and factories, in which the properties of plastic could be changed and damaged).
- Where there is high-frequency or wireless equipment.
- Where the air from the outdoor unit air outlet is blocked.
- Where the operation sound or air from the outdoor unit bothers the house next door.
- The mounting height of indoor unit 1.8 m to 2.3 m is recommended. If it is impossible, please consult your dealer.
- The indoor unit must be installed in rooms which exceed the floor space specified. Please consult your dealer.
- Do not operate the air conditioner during interior construction and finishing work, or while waxing the floor. Before operating the air conditioner, ventilate the room well after such work is performed. Otherwise, it may cause volatile elements to adhere inside the air conditioner, resulting in water leakage or scattering of dew.



Electrical work

- Provide an exclusive circuit for the power supply of the air conditioner.
- Be sure to observe the breaker capacity.

If you have any questions, consult your dealer.

SPECIFICATIONS

Guaranteed operating range

	Indoor	Outdoor
Upper limit	32°C DB 23°C WB	46°C DB —
Lower limit	21°C DB 15°C WB	21°C DB —

DB: Dry Bulb
WB: Wet Bulb

mitsubishi electric corporation

HEAD OFFICE: TOKYO BUILDING, 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

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